



## Gulf of Mexico Harmful Algal Bloom Bulletin

30 September 2004

National Ocean Service

National Environmental Satellite, Data, and Information Service

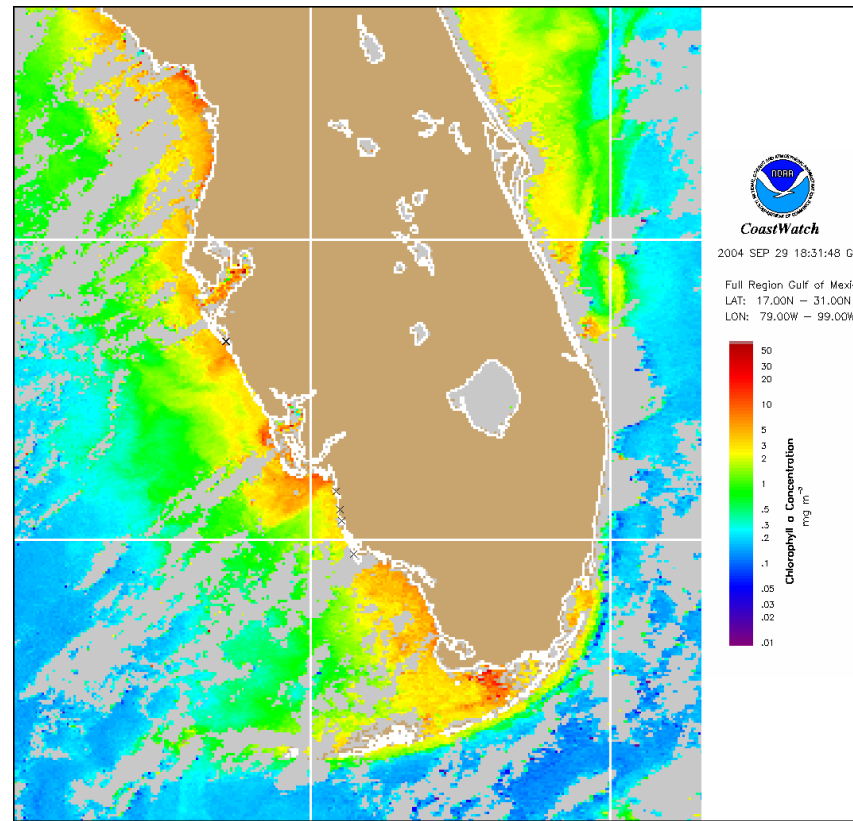
Last bulletin: September 27, 2004

### Analysis

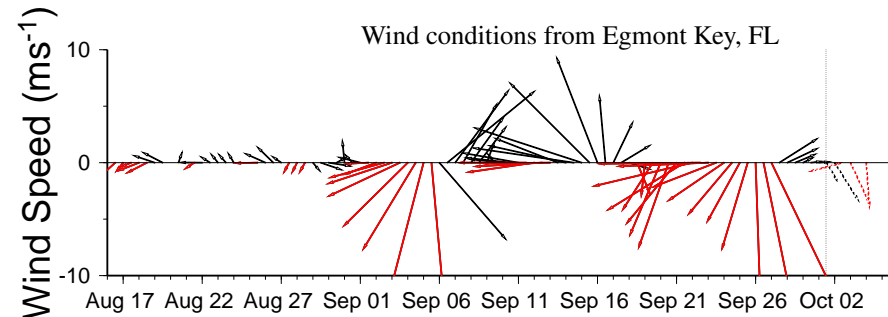
Conditions: No harmful algal blooms have been confirmed along Floridas Gulf Coast.

Analysis: Resuspension from Hurricane/Tropical Storm Jeanne beginning to settle along Floridas Gulf coast. Large regions of elevated chlorophyll remain from Sarasota to just south of Sanibel Island, extending offshore. Patches of extremely high chlorophyll ( $>10\mu\text{g/L}$ ) located near Boca Grande and near Sanibel/Captiva. Although easterly winds may minimize effects onshore, reports of discolored water are possible in these locations. While conditions have not been favorable for a bloom the past few days, no cell counts have been reported since the upwelling favorable conditions caused by Jeanne.

Stolz and Fisher



Chlorophyll concentration from satellite with possible HAB areas shown by red polygon(s). Cell concentration sampling data from September 22, 2004 shown as red squares (high), red triangles (medium), red diamonds (low b), red circles (low a), orange circles (very low b), yellow circles (very low a), green circles (present), and black "X" (not present).

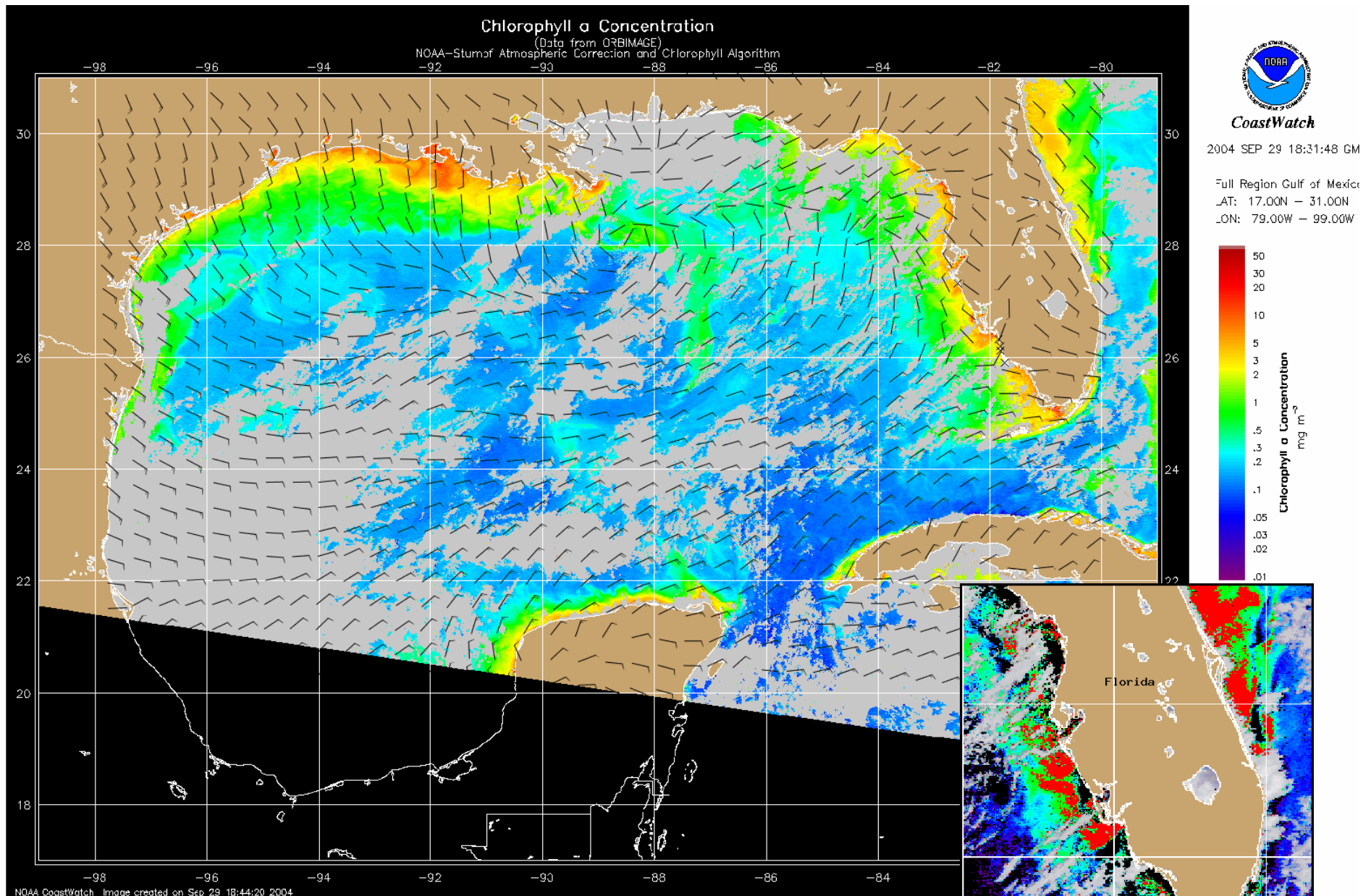


Wind speed and direction are averaged over 12 hours from measurements made on buoys. Length of line indicates speed; angle indicates direction. Red indicates that the wind direction favors upwelling near the coast. Values to the left of the dotted vertical line are measured values; values to the right are forecasts.

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Contrary to this model prediction, NWS marine forecast calls for winds from the east to northeast through Monday. Light wind today picking up to 10-15 knots through the weekend.



Chlorophyll concentration from satellite and forecast winds for October 1, 2004 00Z with cell concentration sampling data from September 22, 2004 shown as red squares (high), red triangles (medium), red diamonds (low b), red circles (low a), orange circles (very low b), yellow circles (very low a), green circles (present), and black "X" (not present).

Blooms shown in red (see p. 1 analysis and image for interpretation)